

134

415 Nicollet Avenue
Minneapolis, Minn.

KRESGE'S RADIO CATALOG *And* Buyer's Guide

1926 • 1927
Edition

*Prices Subject
to Change*

S. S. KRESGE CO.

5¢ 10¢ 25¢

Red Front Stores

And

25¢ \$1.00

Green Front Stores

General Office

S. S. KRESGE CO.

Kresge Building • Detroit, Michigan

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NEW RADIO BLUE PRINT SERIES, each..10c

The following Blue Prints are available in this series:

Five and Six Tube Three Dial Tuned Radio Frequency.

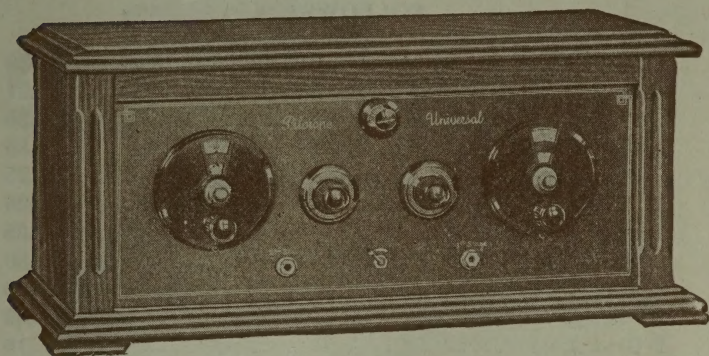
Browning and Drake Four and Five Bulb Set.

Universal Two Dial Five Bulb Tuned Radio Frequency.

A Blue Print showing the different types of audio frequency amplification, including transformer coupled—transformer and resistance coupled—three stage resistance coupled—three stages of impedance coupled.

Published by Whitman Publishing Co., Racine, Wis.

Experimenters' Universal Set



The Experimenters' Universal Set was developed by Merle Duston especially for the radio men who buy their parts from the S. S. Kresge Co.

Parts for this set can be purchased in two different ways. The experimenter can either buy a box containing a complete "Kit" with drilled and engraved panel and drilled subbase, or he can purchase all of his parts separately and drill his own panel.

When purchasing the parts in "Kit" form the set will have more of the appearance of a commercial receiver and can be assembled without the use of a solder joint, as sufficient flexible leads come with the "Kit" to wire up any one of the five circuits.

This set was designed to be used with the following circuits:

Five bulb tuned radio frequency.

Three bulb short wave.

Three bulb three circuit—with any one of three different type coils.

Two bulb reflex.

Three bulb reflex.

The advanced radio experimenter will find many other circuits which can be adapted to this panel layout.

The cabinets are not included in the Universal Kit, but should be purchased separately. The panel is a regular 7x18 size and the cabinet should be at least 7½" deep. Several different kinds of finished and unfinished cabinets are on sale in the Kresge Stores and the builder should select the one which best suits his taste.

EXPERIMENTERS' UNIVERSAL SET (Cont.)

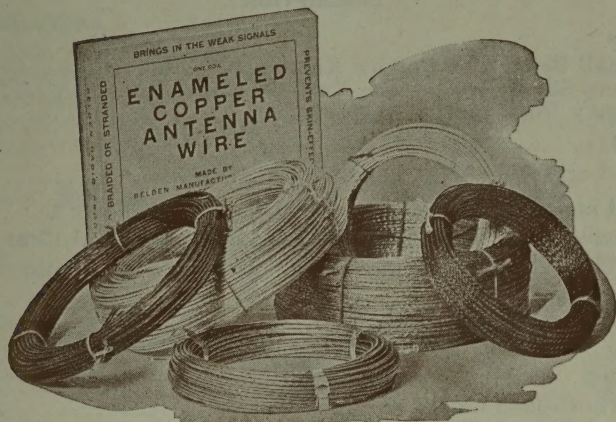
LIST OF PARTS WHICH ARE FURNISHED IN THE "KIT" ARE AS FOLLOWS:

1 Drilled and Lithographed Front Panel.....	\$1.38
1 Drilled Subpanel 7x17	1.31
1 10 Ohm Rheostat with Knob.....	.35
1 20 Ohm Rheostat with Knob.....	.35
1 Pilot Light .....	.25
1 Three Point Jack .....	.25
1 Four Point Jack .....	.25
2 Two inch Bakelite Subpanel bracket.....	.50
2 Vernier Dials	1.40
2 700 Ohm Resistances (Dampers) .....	.50
1 Grid Leak .....	.10
1 .006 By-pass Condenser.....	.25
1 .002 By-pass Condenser.....	.25
1 .00025 Grid Condenser with Clips.....	.25
5 Universal Sockets	1.25
1 Filament Switch .....	.25
1 Package of Washers .....	.25
1 Package nuts .....	.25
2 Packages of Assorted Screws and Bolts.....	.50
41 Flexible Leads and Additional Flexible Hook-up Wire	1.03
9 Marked Binding Posts .....	.90
2 Audio Frequency Transformers	2.00
Complete Price of the "Kit".....	\$13.82

Note:—If purchasing this "Kit" at a Kresge Green Front Dollar Store, higher priced transformers may be included in the "Kit."

The above price does not include coils and variable condensers. These should be purchased separately for the particular type set which is going to be constructed. For instance the five tube set will require one two-gang 17 plate variable condenser, one single 17 plate condenser, one Midget balancing condenser, and three baby radio frequency coils. The complete cost of these additional parts will not be over \$5.00 making the complete "Kit" cost in the neighborhood of \$17.50.

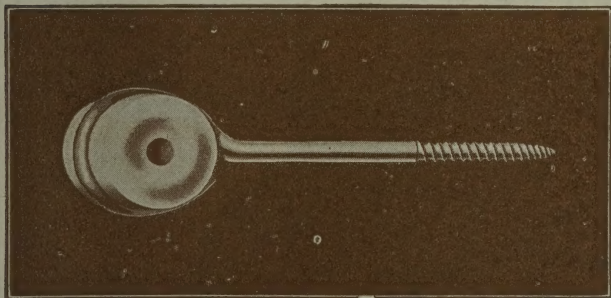
Aerial Equipment



Cat. No.	DESCRIPTION	Price
Aerial Wire		
100	No. 14 B & S Gage Solid Copper Enameled Aerial Wire..	50' for 25c
101	No. 14 B & S Gage Solid Copper Wire.....	25' for 10c
102	Braided Wire 16 Strands No. 28 Plain	50' for 25c
103	Braided Enameled Wire 16 Strands No. 25.....	50' for 25c
104	7 Strands No. 22 B & S Gage Enameled Wire.....	25' for 20c
105	Stranded Copper Tin Aerial Wire.....	20' for 15c

Insulators

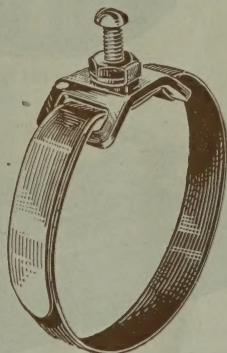
106	Glass Insulator	5c ea.
107	Lumite Glass Insulator	10c ea.
108	Black Composition Insulator 2½" long.....	5c ea.
109	White Glazed Porcelain Insulator 6" long (Big Joe).....	10c ea.
110	White Glazed Porcelain Insulator 4½" long (Medium Joe)....	5c ea.
111	White Glazed Porcelain Insulator 3" long (Little Joe).....	5c ea.



Cat. No. 109



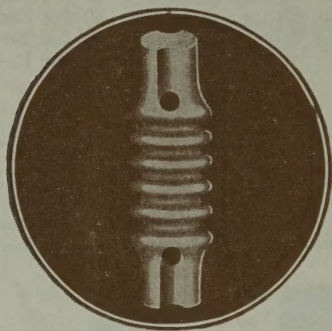
Cat. No. 110



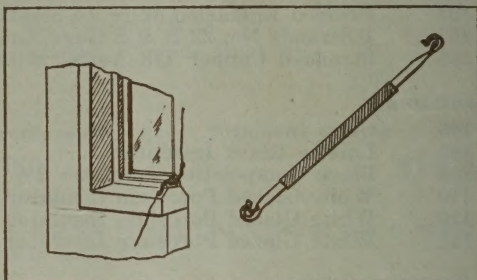
Cat. No. 122

AERIAL EQUIPMENT (Cont.)

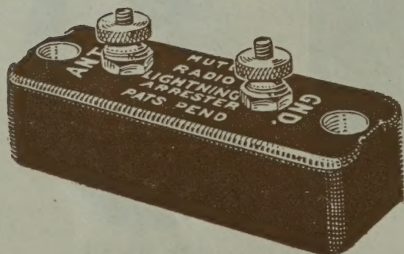
Cat. No.	DESCRIPTION	Price
Service Knobs		
112	Small Screw Eye Service Knob.....	5c ea.
113	Long Screw Eye Service Knob 6" long	5c ea.
114	Heavy Duty Service Knob	10c ea.
Spring Aerial		
116	Coil of Spring Wire Tinned 100 ft. long.....	25c
Antenna Lead in		
117	Copper Strip thoroughly insulated with Terminal Clips on each end	10c each
Lightning Arrester		
119	Muter Lightning Arrester	25c each
	(Passed by National Board of Fire Underwriters)	
Ground Clamp		
121	Strip Ground Clamp	5c each
122	Band Ground Clamp	10c each
123	Cast Ground Clamp	10c each
Metal Masts		
125	Bottom Flange without Pine Cap.....	25c each
126	1" Pipe Cap with hole for Bolt.....	10c each
Note: Two of these necessary for each Mast.		



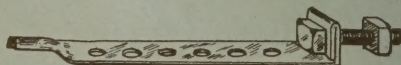
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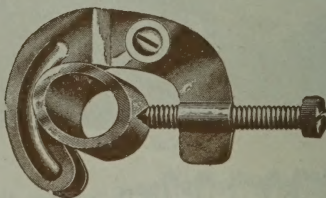
Cat. No. 117



Cat. No. 119



Cat. No. 121



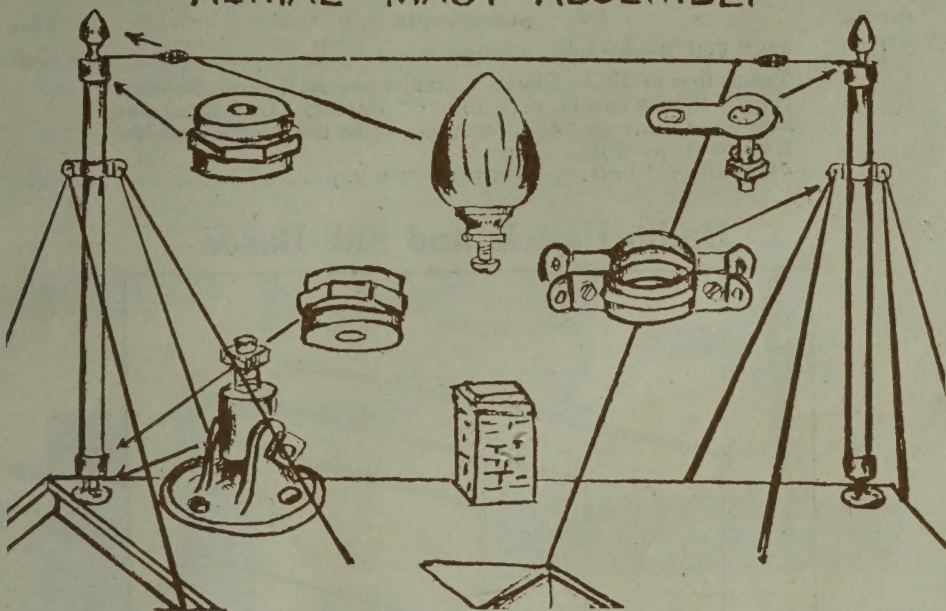
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AERIAL EQUIPMENT (Cont.)

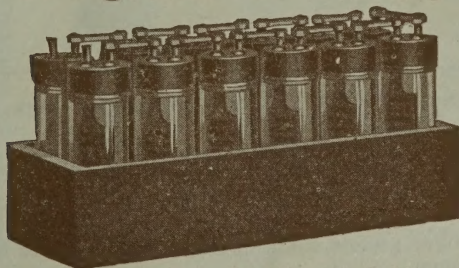
Cat. No.	DESCRIPTION	Price
Metal Masts (Cont.)		
127	Guy Wire Bracket	15c each
128	Top Ornament	25c each
129	Aerial Wire Bracket	5c each

Note: The above Fittings are to be used with 1" Pipe of any length necessary up to 20' long. Ask for free direction sheet for putting up aerals.

— AERIAL MAST ASSEMBLY —



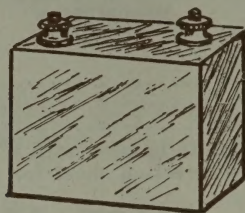
Chargeable "B" Battery



Cat. No. 130 & 131

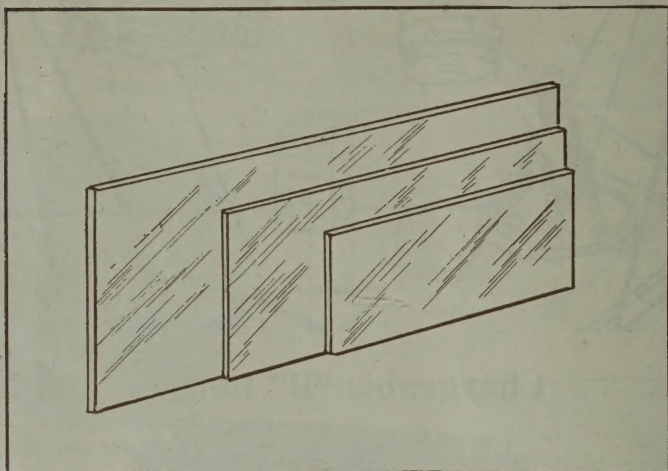
130	One "B" Battery Unit	25c each
131	One "B" Battery Box	25c each
	Complete Unit consisting of 12 Cells and Box sells complete for \$3.25	

Dry "B" and "C" Batteries



Cat. No.	DESCRIPTION	Price
140	4½" Volt Blocks with Binding Posts.....	25c each
	Takes five of these Blocks to make one 22½ Volt Battery. Single Blocks can be used for "C" Battery. One Block can also be used as an "A" Battery to light the filament of the UV 199 Type Bulb.	
141	4½ Volt "C" Battery with three volt tap.....	20c

Radio Panels and Sub-Bases



145	Non-sulphurous Hard Rubber Panels of high dielectric strength, 7" high—Black.....			25c for 4 lineal inches
146	Hood Rubber Black Panels—Florentine Finish.....			25c for 4 lineal inches
147	Crackle Finish Hard Rubber Panel.....			25c for 4 lineal inches
148	Genuine Diamond State—Celoron— $\frac{1}{8}$ " in thickness. One side polished, one side dull			25c for 4 lineal inches
All the above panels come in the following sizes and for the prices shown.				
7x9	\$0.57	7x21		1.32
7x12 .....	.75	7x24		1.50
7x18	1.13	7x26		1.63

Binding Posts

Cat. No.	DESCRIPTION	Price
149	Pilot Nickel Plated Non-Removable.....	5c each
150	Small Nickel Plated Binding Post.....	2 for 5c
151	Large Nickel Plated Binding Post.....	5c each
152	Pilot Bakelite Non-Removable Marked Top Binding Post...10c each	
These can be had with the following tops: Ant—Gnd ⁺ A Bat—A+B—B+B amp. +C+C—and plain top.		
153	Genuine Eby Marked Top Binding Posts—all types.....	10c each
154	Composition Marked Top Binding Post.....	2 for 5c
155	Composition Top plain.....	2 for 5c
156	Marked Terminal Strip for Binding Posts.....	10c each
157	Terminal Strip with Composition Binding Posts.....	25c each
158	Terminal Strip with Fahnestock Clips.....	25c each
159	Pilot Jiffy Binding Post Strip complete with phone tip jacks and lugs.....	25c
160	Non-Solder Terminal Plugs with standard jack tips to fit No. 159 Strip.....	5c each
161	Mounting Bracket for Terminal Strip.....	10c per pair
162	Fahnestock No. 3 Terminal Clips.....	3 for 5c
162	Fahnestock No. 9 Double Terminal Clips.....	2 for 5c



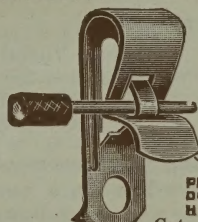
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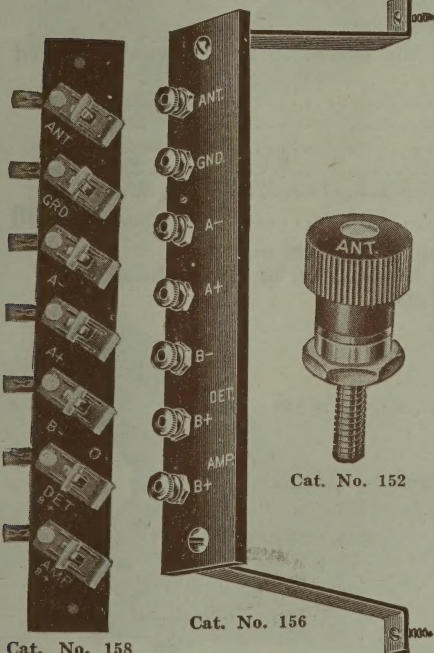
Cat. No. 151



Cat. No. 155

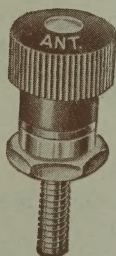


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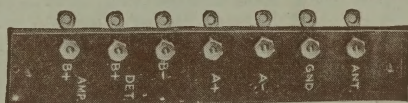


Cat. No. 158

Cat. No. 156

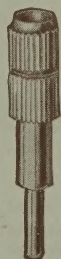


Cat. No. 152



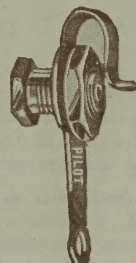
Cat. No. 159

This item fills a long felt want where quick and positive connections are necessary. Will take all standard phone tips and will also accommodate the Pilot Snap Terminal shown below. Moulded of genuine bakelite, metal parts, nickel plated and marking in white enamel. The last word in radio set connections.



Cat. No. 160

This tip is made the same size as a standard phone tip. Will accommodate any standard size wire and is designed to be used with the connecting strip shown above. The wire is attached to the terminal quickly without soldering, making a positive and permanent connection without any chance of pulling out.



Cat. No. 164

Variable Condensers

The following prices of Variable Condensers are for the complete parts of all sizes. These are listed as follows:

Stator Plates.....	25c
Rotor Plates	25c
Each End Plate	25c

Complete Variable Condenser.....**\$1.00**

Cat. No.	DESCRIPTION	Price
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Straight Line Frequency

165	8 Plate Variable Condenser—Capacity .00017 M F.....	\$1.00
166	13 Plate Variable Condenser—Capacity .0003 M F.....	1.00
167	17 Plate Variable Condenser—Capacity .00038 M F.....	1.00
168	23 Plate Variable Condenser—Capacity .0005 M F.....	1.00

Modified Straight Line Frequency

169	8 Plate Variable Condenser—Capacity .00017 M F.....	1.00
170	13 Plate Variable Condenser—Capacity .0003 M F.....	1.00
171	17 Plate Variable Condenser—Capacity .00038 M F.....	1.00
172	23 Plate Variable Condenser—Capacity .0005 M F.....	1.00

Midget Condenser

173	7 Plate Variable Condenser—Capacity 25 M M F	
	Rotor 25c, Stator 25c Complete.....	50c
174	13 Plate Variable Condenser—Capacity 50 M M F	
	Rotor 25c, Stator 25c Complete.....	50c

Two Gang Condensers—Straight Line Frequency

175	The price quoted below is for the complete assembly, distributed as follows:	
	2 End Plates	25c each
	2 Sets of Rotor Plates	25c each
	2 Sets of Stator Plates	25c each
	Hardware	25c
	Assembly Charge	25c
	Complete	\$2.00

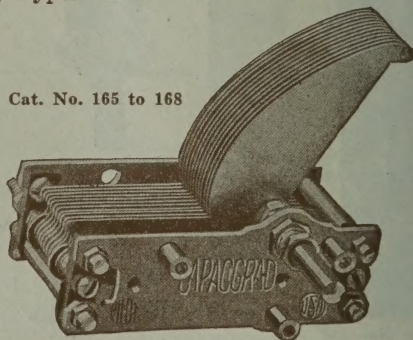
The Two Gang Condensers come in 17 Plate only.
The Double Condenser can also be obtained in the Modified Straight Line Frequency Type.

“Velvet Feel” CAPACIGRAD

Cat. No. 165 to 168

A true straight line frequency condenser, solid brass plates. Special bushings give that “velvet feel”—free from chatter. Built like a watch, this Capacigrad costs no more than an ordinary condenser.

Made also as a double condenser, mounted on a common shaft. The sections having large separations and electrically insulated so as to prevent oscillations.

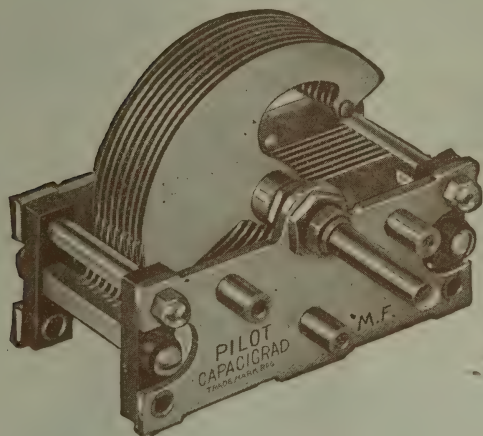


VARIABLE CONDENSERS (Cont.)

Midget

COMPENSATING CONDENSER

Compensates for variations in coils and condensers, etc. Especially important where uni-control is employed, resulting in balanced, stabilized circuit. One hole mounting.

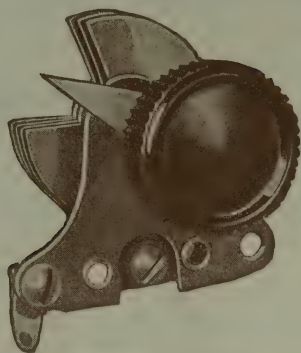


Cat. No. 169 to 172

PILOT CAPACIGRAD ARE WINNERS OF THE INTERNATIONAL CONTEST



Cat. No. 175



Cat. No. 173-174

"Velvet Feel" CAPACIGRAD

This Pilot variable condenser gives a modified straight line calibration curve. The centrally located bearings, cut out stator and rotor plates and extra re-enforcements of the rotor plate make this Capacigrad extremely high in electrical efficiency. Made also as a double condenser mounted on a single shaft.

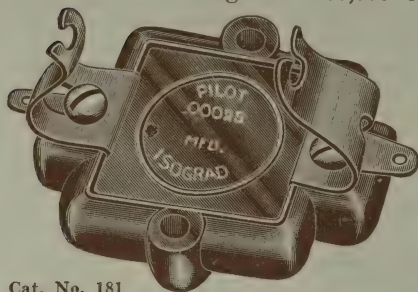
Made with the customary Pilot accuracy.

Fixed Condensers Resistance Units and Grid Leaks

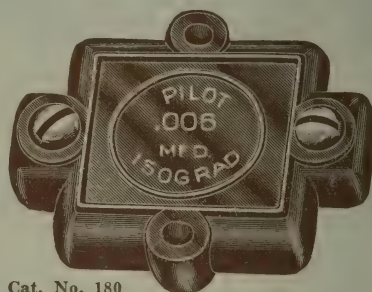
Cat. No.	DESCRIPTION	Price
Fixed Condensers		
180	Pilot Moulded Bakelite Fixed Condensers.....	25c each
	Can be had in the following capacity:	
	.001 MF—.002 MF—.006 MF—.005 MF—.00025 MF.0001 MF.	
181	Pilot Grid Condenser .00025 MF complete with Grid Leak Mounting	25c each
182	Muter Special Mica and Condensite Fixed Condensers.....	20c each
	Can be had in the following capacities:	
	.0001 MF—.00025 MF—.0005 MF—.001 MF—.002 MF.	
183	Special Muter Mica and Condensite Fixed Condensers .006 MF capacity	25c each
184	Special Muter Mica and Condensite Grid Condenser complete with Clips for Grid Leak .00025	20c each
185	Muter Type Grid Leaks.....	10c each
	These can be had in $\frac{1}{4}$, $\frac{1}{2}$, 1, 2, 3, 5 Megohms.	
186	Polymet by-pass Condenser	25c each
	Can be had in the following capacities:	
	.25 MF—.01 MF—.5 MF.	

Resistance Units

- 189 Resistance Units for Resistance Coupled Amplification....10c each
Can be had in the following sizes:
 $\frac{1}{8}$ —1/10 and 1/20 Megohms.
1/10—Megohm = 100,000 Ohms.



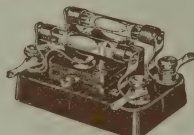
Cat. No. 181



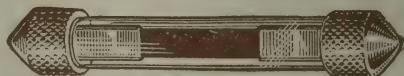
Cat. No. 180



Cat. No. 191



Cat. No. 190 & 185



Cat. No. 185



Cat. No. 182



Cat. No. 190

FIXED CONDENSERS RESISTANCE UNITS AND GRID LEAKS (Cont.)

Cat. No.	DESCRIPTION	Price
Resistance Units (Cont.)		
190	Double resistance Unit Mountings with Clip for Fixed Condensers	25c each
191	Single Resistance and Grid Leak Mountings.....	10c each

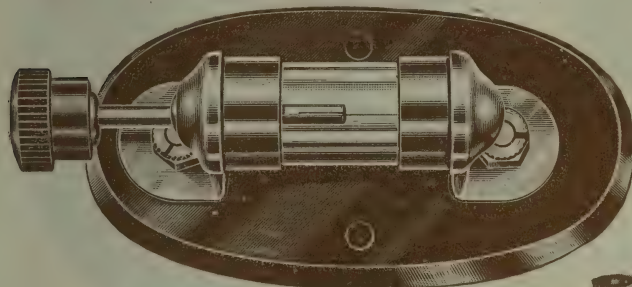
When making up a resistance coupled amplifying unit, use one of the 1/10 megohms resistances for each stage and use one grid leak. 1/4 megohm for first stage, 1/2 megohm for second stage and one megohm for third stage. Instead of the 1/10 megohm for the resistance unit, a unit of 1/8 megohm or 1/20 megohm sometimes works best.

Pilot Isograd Fixed Condensers are molded under tremendous pressure in genuine bakelite which completely seals the Mica Condenser against changes in capacity and resistance. They are not affected by extreme changes in heat, moisture or pressure.

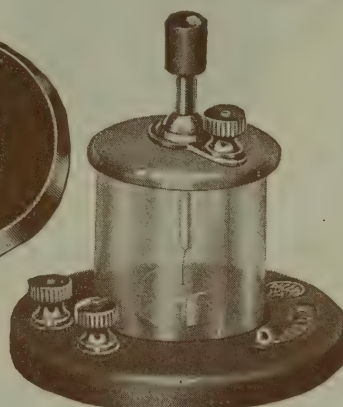
Approved and purchased by U. S. Naval Research Laboratories.

Crystal Detectors and Crystals

Cat. No.	DESCRIPTION	Price
194	American Ring Detector	25c
195	Crystal Detector for use with either mounted or unmounted Crystals	25c each
196	Telurium and Zincite Crystal Detector	25c each
197	Mounted Crystals "Galena," "Pyrite," "Silicon".....	10c each
198	Genuine "B" Metal Crystals	25c each
199	Fixed Crystal Detectors	25c each



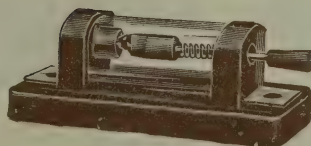
Cat. No. 194



Cat. No. 195



Cat. No. 198



Cat. No. 196



Cat. No. 197

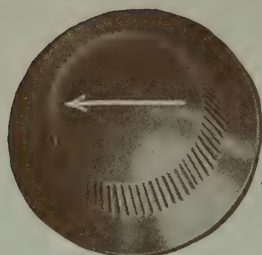
Dials



PILOT KILOGRAD

A new and improved vernier dial (ratio 10:1) which makes fine tuning not only possible but positive! A fine "Job" in genuine Bakelite made by the world's greatest radio parts manufacturer.

199	Pilot (Kilograd) Vernier Dial.
	Face .....25c
	Knob .....15c
	Shaft Bushing 15c
	Disc .....15c
	Complete .....70c



Cat. No. 191

200	Pilot Bakelite Arrow Knob .....10c
203	Pilot Genuine Bakelite 4" Dial .....25c
205	Pilot Genuine Bakelite 3" Dial .....25c



ONE PIECE BAKELITE DIAL

A massive, handsome tuning control, molded of one piece of solid Bakelite. Both the knob and the flat finger surface are knurled assuring a comfortable grip and fine tuning.

Dial Markers

224	Dull Silver or Gold Finish5c each
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Jacks and Plugs

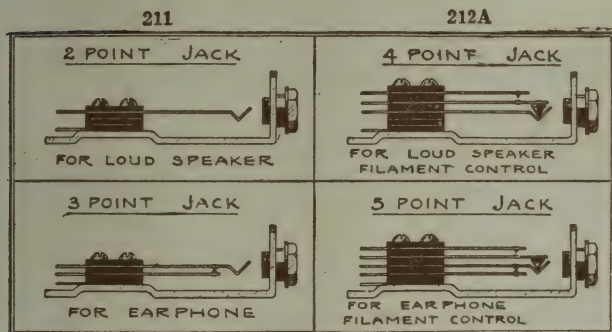
Cat. No.	DESCRIPTION	Price
206	Pacent Single Circuit Jack, two point.....	25c
207	Pacent Three Point Jack, open circuit	25c
208	Pacent Single Circuit Filament Control, four point.....	25c
209	Pacent Open Circuit Filament Control, five point.....	25c
210	Pacent Phone Plug	25c
211	Pilot Single Circuit Jack, two point.....	25c
212	Pilot Three Point Jack, open circuit.....	25c
212A	Pilot Four Point Single Circuit Filament Control.....	25c
213	Pilot Open Circuit Filament Control, five point.....	25c
214	Pilot Phone Plug	25c
	This plug will take two head sets or two loud speakers.	
215	Pilot Single Circuit Filament Control.....	25c
216	Muter Phone Plug	25c
217	Polymet (Polly plug)	25c



Cat. No. 213

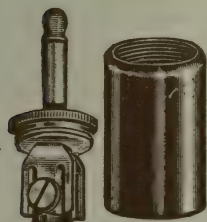


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212

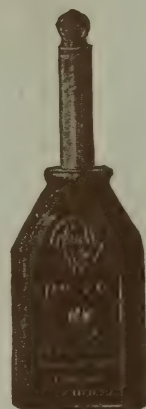
213



No. 214



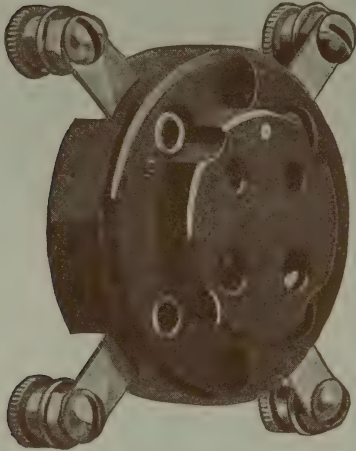
No. 209



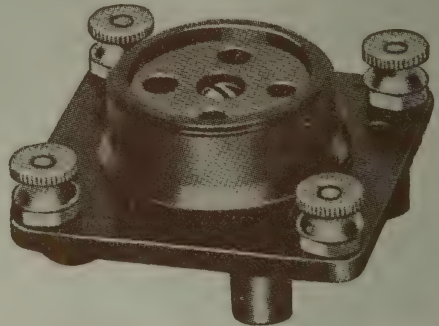
No. 216

Sockets

Cat. No.	DESCRIPTION	Price
218	Pilot Universal Bakelite Socket for UX Tubes.....	25c each
219	Mazda Sure Grip Sockets, Genuine Bakelite.....	25c each
220	Special Cushion Socket	25c each
221	Pilot Shell Type Socket	25c each



Cat. No. 218



Cat. No. 220

Rheostats and Potentiometers

Cat. No.	DESCRIPTION	Price
230	Pacent Potentiometer without Knob or Dial	25c each
231	Pacent 6 Ohm Rheostat without Knob or Dial.....	25c each
232	Pacent 10 Ohm Rheostat without Knob or Dial.....	25c each
233	Pacent 20 Ohm Rheostat without Knob or Dial.....	25c each
234	Pacent 30 Ohm Rheostat without Knob or Dial.....	25c each
235	Knob for Pacent Rheostat and Potentiometers.....	10c each
236	Dials for Pacent Rheostat and Potentiometers.....	10c each
237	Pilot 30 Ohm Rheostat	25c each
238	Pilot 20 Ohm Rheostat	25c each
239	Pilot 10 Ohm Rheostat	25c each
240	Pilot 6 Ohm Rheostat	25c each
241	Pilot 400 Ohm Potentiometer	25c each
242	Bakelite Dial for all types of Pilot Rheostats and Potentiometers	10c each

Note: Pacent Rheostats can be had with Bakelite base and dials are furnished with either silver or gold finish.

Knobs also come in black and mahogany.

Pictures and description of Rheostats on next page.

RHEOSTATS AND POTENTIOMENTERS (Cont.)



Cat. No. 239-242

PILOT RHEOSTAT (One-hole Mounting)

Genuine Bakelite used throughout. Adjustable—can be attached to panel of any standard thickness. Slider built as unit assembly. Constructed with characteristic Pilot precision in all standard resistances. Adds dignity to the panel of any set. Complete with Knob.



Cat. No. 234-235-236

6 or 10 ohm rheostat should be used for a detector bulb or for any bulb which takes over 1 ampere of filament current. When using a bulb of the UV-201A type, a bulb of the UV-199 type rheostat of 20 or 30 ohms should be used.

If using more than one 201A bulb on one rheostat, a 6 or 10 ohm should be used.

WD-11 or WD-12 bulb should have 10 ohm rheostat.

Magnet Wire

Cat. No.	DESCRIPTION	Price
Pig Tail Connectors		
244	Flexible Covered Pig Tail Connectors 6 and 12" long.....	2 for 5c
These connectors can be used in hooking batteries together as flexible leads for connecting movable parts in a radio set to the balance of the wiring.		
Wire		
245	No. 22 B & S Gage Enameled Wire	175' per spool 25c
246	No. 24 B & S Gage Enameled Wire	300' per spool 25c
247	No. 18 B & S Gage, Green Silk over Cotton.....	43' per spool 25c
248	No. 20 B & S Gage, Green Silk over Cotton.....	52' per spool 25c
249	No. 22 B & S Gage, Green Silk over Cotton.....	62' per spool 25c
250	No. 24 B & S Gage, Green Silk over Cotton.....	90' per spool 25c

MAGNET WIRE (Cont.)



Cat. No. 250



Cat. No. 244

Wire (Cont.)

Cat. No.	DESCRIPTION	Price
251	No. 26 B & S Gage, Green Silk over Cotton.....	106' per spool 25c
252	No. 28 B & S Gage, Green Silk over Cotton.....	125' per spool 25c
253	No. 18 White Double Cotton Covered	55' per spool 25c
254	No. 20 White Double Cotton Covered	83' per spool 25c
255	No. 22 White Double Cotton Covered	110' per spool 25c
256	No. 24 White Double Cotton Covered	140' per spool 25c

Telephone Equipment

261	Telephone Headset	
	Headband	25c
	2 Cases	20c each
	2 Magnets	25c each
	2 Phone Caps	10c each
	2 Ferrotypes	10c each
	Double Cord	25c
	Complete	\$1.80
265	Single Phone Cord 5 feet long.....	25c each
266	Double Phone Cord, 5 feet long.....	25c each
267	Loud Speaker Extension Cord 15 feet long.....	25c
268	Loud Speaker Extension Cord Connectors.....	25c each

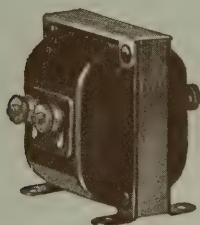


Cat. No. 261

Audio Frequency Transformers

Cat. No.	DESCRIPTION	Price
270	Peerless Audio Frequency Transformer	
	2 Sides	10c each
	1 Coil Shield	10c each
	1 Base .....	.0c
	1 Core .....	.25c
	1 Coil .....	.25c
	Assembly Charge .....	.15c
	Complete	\$1.00
	These can be had in either 3½ or 5 to 1 ratio.	
271	Dongan Apollo Audio Frequency Transformer	
	Case Assembly .....	.25c
	Coil .....	.25c
	1 Core .....	.25c
	2 Terminal Assemblies .....	.10c
	Assembly Charge .....	.15c
	Complete	\$1.00
	These can be had in either 2 to 1—3½ to 1—and 5 to 1 ratio.	
272	American Specialties Transformer	
	Case Assembly .....	.25c
	Coil .....	.25c
	1 Core .....	.25c
	2 Terminal Assemblies .....	.10c
	Assembly Charge .....	.15c
	Complete	\$1.00

Apollo Transformer



Cat. No. 271

Moulded Bakelite Tubing

Cat. No.	DESCRIPTION	Price
275	Any size 2½" long.....	15c
276	Any size 3½" long.....	20c
277	Any size 4½" long.....	25c

Note: This tubing comes in the following diameters: 1", 2", 2½", 2¾", 3", 3½".



Cat. Nos. 278 to 279A

Parts for Radio Cabinets

Cat. No.	DESCRIPTION	Price
280	Unfinished Radio Cabinets can be had in the following sizes: 12", 18", 24", 26". All of these to take a 7" panel. Prices for all parts of these cabinets vary between \$1.20 for 7x12 to \$1.50 7x26.	



Misc. Radio Parts and Tools

Cat. No.	DESCRIPTION	Price
Battery Clips		
285	Universal 21-A type	15c
286	Universal 24-A type	10c
287	Dusie type—large	15c
288	Dusie type—small	10c
289	Pee Wee Clips	5c
290	Morris Eureka Clips	5c
Radio Switches		
291	8 Contact Inductance Switches	25c
293	Dial for Inductance Switch	10c
294	Double Throw, Double Pole, Knife Switch	25c
295	Single Pole, Double Throw Knife Switch	15c
296	Single Pole, Single Throw Knife Switch	10c
297	Muter "A" Battery Filament Switch	25c
299	Pilot Filament Switch	25c
300	Toggle Type Filament Switch	25c



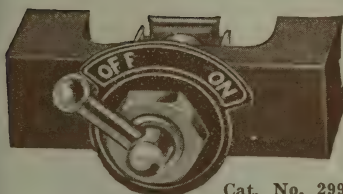
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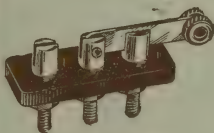
Cat. No. 290



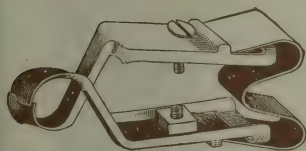
Cat. No. 289



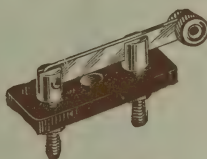
Cat. No. 299



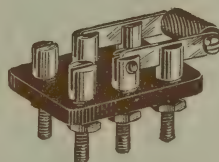
Cat. No. 295



Cat. No. 287



Cat. No. 296



Cat. No. 294

Hook-up and Buss Wire

301	Round 2 ft. lengths—3 lengths for.....	5c
302	Square 2 ft. lngths—3 lengths for.....	5c
303	Spaghetti Covered Stranded Hook-up Wire.....	5' for 10c
	Comes in the following colors: Black, red, green, yellow.	
304	Plain Rubber Covered Flexible Hook-up Wire	12' coil 10c
305	"A" Battery Cable, Five Wire, 4½' long with spade terminal	25c

Miscellaneous Parts

307	Pilot Light for Radio Panel	25c
308	Lamp for Above Pilot Light	15c
309	Pilot Adjustograd, 700 Ohm	25c each
310	Coil of Bell Wire	25' for 10c

MISC. RADIO PARTS AND TOOLS (Cont.)

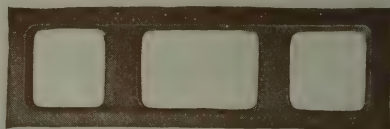
PILOT LIGHT



The Pilot Light is indispensable on any set. Tells at a glance when tubes are lit from front panel. Single hole mounting. This Pilot Light will save your battery from being used when set is not operating.

Cat. No. 307

SUB-PANEL BAKELITE BRACKET



Cat. No. 325

A sturdy well designed bracket used for mounting front and sub-panel. Moulded of genuine bakelite, $6\frac{3}{4}$ inches long by 2 inches high.

Cat. No.

DESCRIPTION

Price

Solder

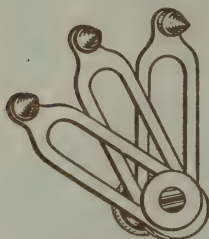
311	Rosin Core Solder—per length	10c
312	Tube Solderall .....	.25
313	Kester Rosin Solder	can 25c

Hydrometers

314	Hydrometer Bulb 10c—Tip 10c—Float 10c—Glass Tube 10c—Complete	40c
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Tubing

315	Varnish Cambric Tubing (Spaghetti) 21" for.....	5c
	(Can be had in Black, Red, Green or Yellow).	



Cat. No. 308



Cat. No. 307



No. 313

No. 312

No. 311

No. 310

No. 309



No. 303



Cat. No. 304

MISC. RADIO PARTS AND TOOLS (Cont.)

Cat. No.	DESCRIPTION	Price
Template Markers		
316	Template Marker 4 Point.....	15c
317	Template Marker 3 Point.....	10c

Radio Brackets

320	Small Angle—2 for	5c
321	Terminal Strip Bracket—each	10c
322	Angle Bracket—each	5c
323	Short Angle Bracket—each	10c
324	Long Angle Bracket—each	10c
325	Bakelite Sub-panel Bracket	25c

700 OHM ADJUSTABLE RESISTANCE



Cat. No. 309

For Eliminating Squeals and Howls

A small variable resistance designed to control the self oscillations of the tubes in the radio frequency circuits. The resistance should be placed in series in the grid circuit and the slider moved to the proper point where the oscillations are under control, then locked in that position.

Soldering Lugs

330	Any style put up 20 in an envelope.....	5c
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Bolts, Nuts and Screws

333	Flat Head Brass Machine Screw assortment 6/32 & 8/32 Thread	25c
334	Round Head Brass Machine Screw Assortment 6/32 & 8/32 Thread	25c
335	Assortment of Nuts and Washers.....	25c

Winding Forms

339	Spider Web Form—each	5c
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Types of Bolts and Screws



No. 334



No. 336



No. 330. (Types of Soldering Lugs)

Radio Coils

340	Three Circuit Low Loss Tuners, large type	
	Primary	25c
	Secondary	25c
	Tickler	25c
	Mounting	25c
	Complete	\$1.00
341	Baby Three Circuit Tuner	
	Primary	25c
	Tickler	25c
	Secondary	25c
	Mounting	25c
	Complete	\$1.00
342	Freshman Type Radio Frequency Coils.....	25c each
343	Mountings for Freshman Type and Spider-Web Coils.....	5c
344	Spider-Web Type Radio Frequency Coils.....	25c each
345	Baby Low Loss Radio Frequency Coils.....	25c each
346	Space Bound Coils for Short Wave Set.....	15c per inch

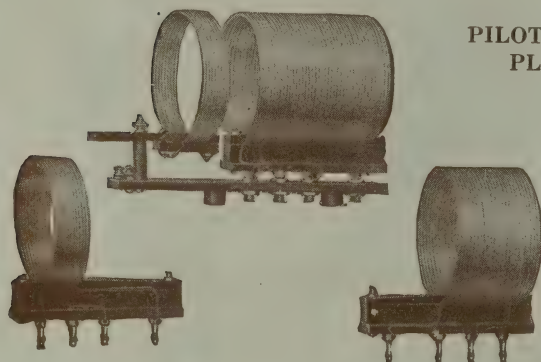
These coils come in the following sizes and can be had in any length up to 11 inches:

2" Wound with No. 24 Green Silk Wire.

2 $\frac{1}{4}$ " Wound with No. 22 Green Silk Wire.

3" Wound with No. 18 Cotton Covered Wire.

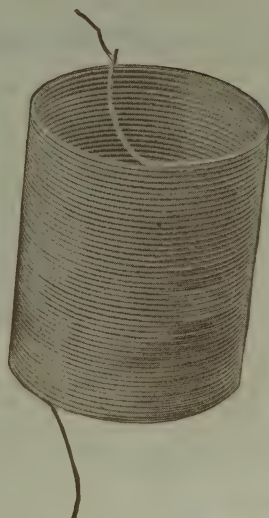
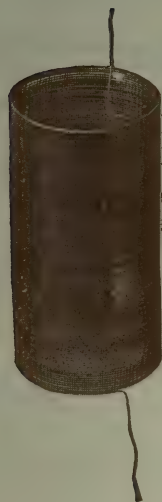
347	Short Wave Coil Mounting	
	Coil Base	25c
	Double Coil Mounting	25c
	Single Coil Mounting	10c
	4 Plugs	5c each
	4 Receptacles	5c each
	Complete	\$1.00



**PILOT SHORT WAVE
PLUG-IN COIL**

The Pilot Short Wave Outfit is designed so that the various coils can be plugged in or out instantaneously. The primary coil is adjustable and the secondary coil and tickler are on the same interchangeable piece. The Pilot No. 1808 or No. 9108 Variable Condenser should be used with the above outfit to obtain the correct wave length range.

RADIO COILS (Cont.)



Cat. No. 347



Cat. No. 341



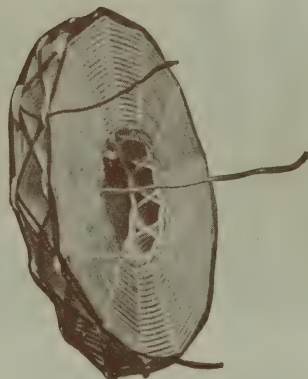
Cat. No. 340



Cat. No. 345



Cat. No. 342



Cat. No. 344

Radio Books

- | | | |
|-----|---|-----|
| 350 | Radio Construction for the Amateur (by Merle Duston)
Seventh Edition | 25c |
| 351 | Duston's Radio Log and Call Book..... | 10c |

RADIO CONSTRUCTION BOOK

This book has become very popular with radio fans who are constructing their own sets. Understandable directions are given on building a number of different types of Radio Receivers. Simple language has been used and it has been the aim of the author to keep away from technical terms which would be confusing to the beginner in radio. Most of the hookups given are shown in outline rather than using schematic symbols. Panel layouts or templates are also furnished which are full size. Over 400,000 have been sold.

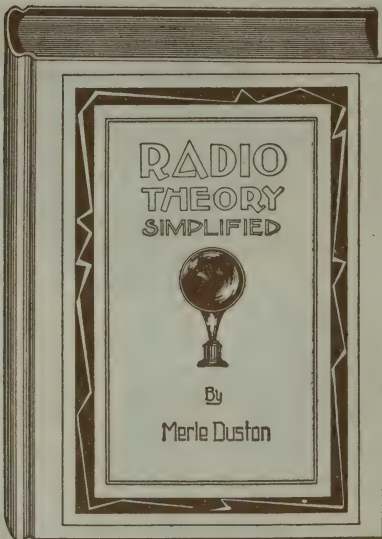
Cat. No.

352

DESCRIPTION
Radio Theory Simplified by Merle Duston (Second Edition)
New and up to date.....

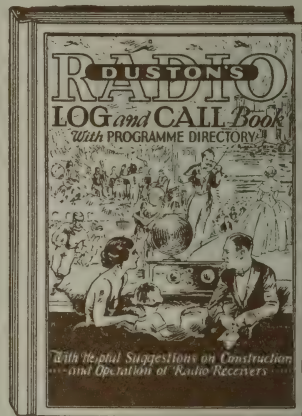
Price

25c



RADIO THEORY SIMPLIFIED

This book has been written for the man who wishes to know more of the theory and principles underlying radio, but who does not wish to take time to study books where this subject is covered in a technical manner. This is a cloth bound book of 192 pages and includes over one hundred illustrations. It will make a worth while addition to any radio fan's library.



RADIO LOG AND CALL BOOK

This Radio Log and Call Book gives an up to date list of all broadcasting stations, telling the wave length, frequency and power used. A number of ruled pages for keeping a record of all stations heard with the dial readings is included. Included is a radio broadcast map which can also be used to keep a record of stations heard. This book is just as complete and up to date as many call books selling for 50c to \$1.00 each.

Three Dial Tuned Radio Frequency Receiver

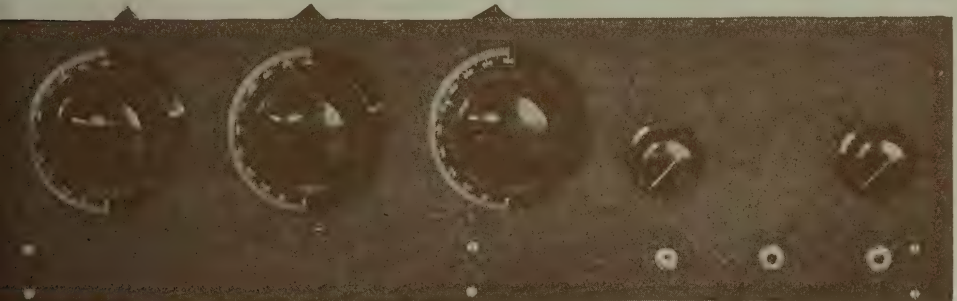
The picture below shows one of the Three Dial Tuned Radio Frequency Sets which can be constructed from parts listed in this catalog.

Three other types of inductance coils can be used with the same panel and sub-base react.

LIST OF PARTS

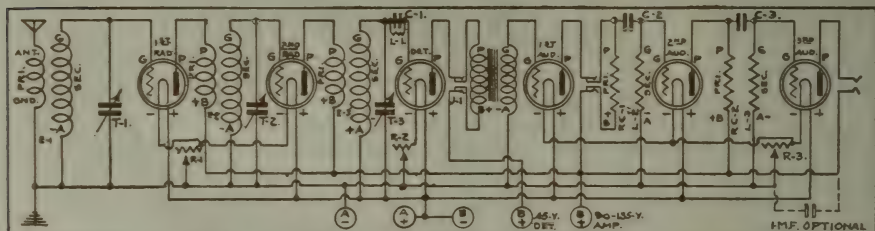
	1	7x24 panel.
	1	7x23 Sub-base.
C1-C2-C3	3	17 Plate Variable Condensers.
	2	Audio Frequency Transformers.
	3	2" Bakelite Sub-base Brackets.
	5	Tube Sockets.
R1	1	10 Ohm Rheostat.
R2	1	20 Ohm Rheostat.
	9	Marked Binding Posts. Ant Gnd C— C+A— A+B— B+Det B+Amp.
C4-R3	1	Grid Leak and Condenser.
C5	1	.001 Fixed Condenser.
R4-R5	2	Filament Resistances.
	1	Filament Switch.
	3	Dials (Preferably Vernier).
J1	1	Three Point Jack
J2	1	Single Circuit Filament Control Jack.
Extra Parts for the Neutrodyne Set—		
L1-L2-L3	3	Neutrodyne Type Tuning Coils.
N1-N2	2	Balancing Condensers.
Extra Parts Necessary for the Spider-Web—		
L1-L2-L3	3	Spider-Web Type Tuning Coils.
Extra Parts Necessary for the Freshman Set—		
L1-L2-L3	3	Basket Weave Freshman Type Tuning Coils.

P. S. The baby type tuning coils, same as are used on the Universal five bulb set can also be used on this type of receiver. Mount the coils upright on the sub-base back of the variable condensers and separate them as far apart as possible.



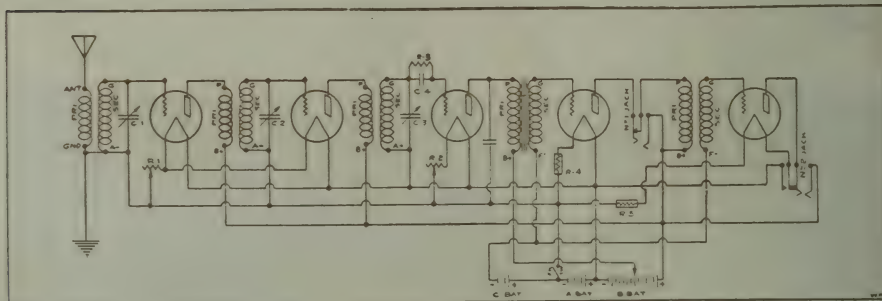
Radio Hook-ups

The Hook-ups given below can also be constructed from parts shown in this catalog. The one immediately below this text matter is a Six Tube Tuned Radio Frequency Set. The only difference in the hook-up is that two stages of resistance coupled amplification is used in place of a transformer, and that there is an extra jack and rheostat in the circuit.



SCHEMATIC SHOWING TRANSFORMER - RESISTANCE COUPLING.

On the bottom of this page will be found a hook-up for the Universal Set, a description of which is given in the first pages of this catalog. List of parts is not given with this hook-up due to the fact that these are included with the text matter on page 4.



Universal 5 Tube Set

One Bulb Reflex Set

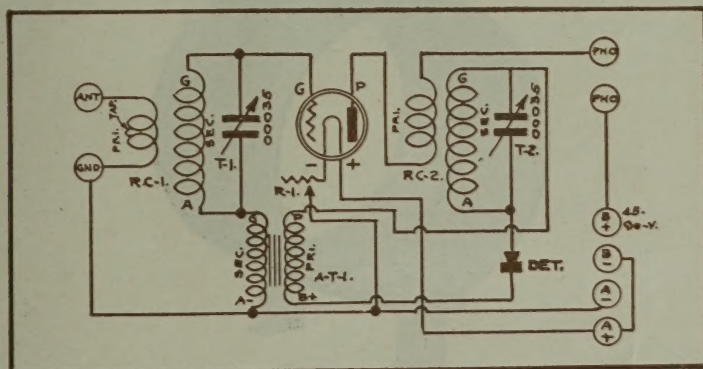


Panel Lay-out or Front View

The set shown on this page makes an ideal receiver for the person who wants loud speaker reception on local stations. The original cost is low and it can successfully be used with dry cell tubes. If conditions are right, stations up to 1,000 miles distant can be heard when using head set.

LIST OF PARTS

Req.	Symbol	Name	Price
1		7x12" Panel	\$.75
2		3" Dials @ 25c each.....	.50
1		Socket .....	.25
8		Marked Binding Posts @ 10c.....	.80
2	T-1 & T-2	17 Plate Var. Cond. @ \$1.00.....	2.00
2	RC-1 & RC-2	Reflex Coils	1.00
Note: Cost of parts and wire or the cost of complete coils.			
1	AT-1	Audio Freq. Trans.	1.00
Note: If buying parts at Kresge Green Front Stores a higher price transformer may be used.			
1	R-1	30 Ohm Rheo. Dial and Knob.....	.45
1	DET-1	Crystal Detector .....	.25
1	DET	Crystal .....	.10
1	Hook-up	Radio Construction Book .....	.25
		Miscellaneous wire, lugs, spaghetti, etc., about....	.50



SCHEMATIC SHOWING ONE TUBE SET.

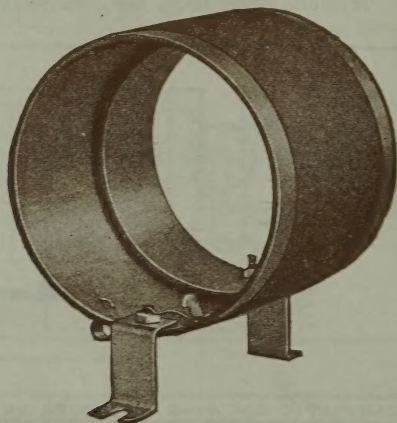
Directions for Winding Neutrodyne Type Coils

Although most of the tuned Radio Frequency Sets being constructed at the present time use transformer coils shown on page 25 we believe that a number of constructors still use coils of the Neutrodyne type.

The tubes for the secondary coils should be $2\frac{7}{8}$ inches in diameter and the inside or primary tube should be $2\frac{5}{8}$ inches in diameter. The secondary tube should be $2\frac{1}{2}$ inches long and the primary 1 inch long. Brackets for mounting these coils to the variable condensers can also be purchased.

In most cases these tubes are wound with No. 22 double silk gauge wire altho No. 24 or No. 20 will give practically the same results.

The secondary should have about 60 turns and the primary about 15 turns. A tap should be taken off of the secondary at the 15th turn from the end of the coil opposite the primary winding. This is the front end of the coil as is shown in the picture on page 28. After constructing the set if it is found that there is excessive oscillation and it cannot be controlled by the balancing condensers try cutting down number of turns of the primary winding. These may be as few as seven turns.



9



he air is full
of things for
you to hear."